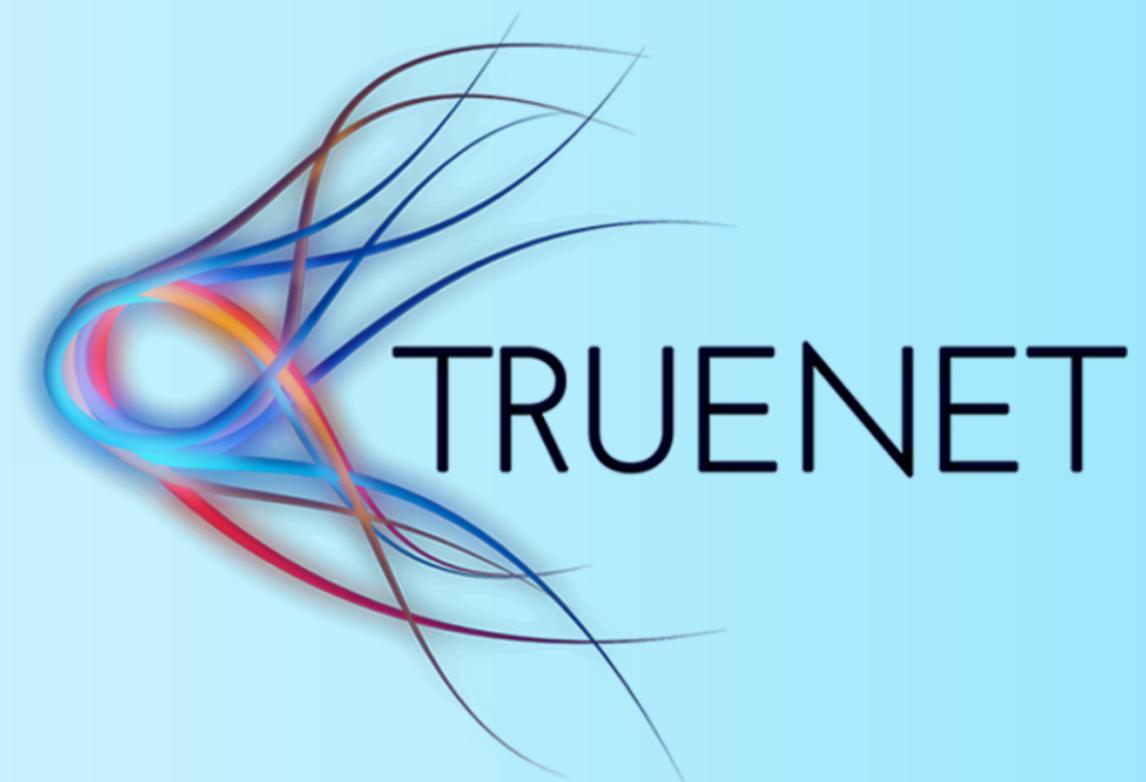


mum

WE MAKE IT  
HAPPEN



Porto  
Guarda  
Lisboa



# DANIELA SILVA

CFO & CHRO



### **Serviço Pós-venda**

*Suporte Técnico  
Gestão e Operações  
Outsourcing*



### **Redes de Comunicação de Dados**

*Routing  
Switching  
Redes WiFi  
Unified Communications*



### **Segurança de Rede**

*Firewall  
Network Admission Control  
Detecção de Intrusão*



### **Desenvolvimento de Software**

*Websites  
Aplicações Web  
Aplicações iOS  
Aplicações Android*



# JORGE CRUZ

HEAD SOFTWARE DEVELOPER



# VITOR RIBEIRO

SENIOR NETWORK ENGINEER

# O trueWiFi

## O QUE É

É uma ferramenta que dá uma visão geral do utilizador WiFi, ajudando a empresa/gestor a entender os utilizadores e interagir com eles.

It is a tool that gives an overview of the WiFi user, helping the company / manager to understand users and interact with them.

**PERMITE AO UTILIZADOR UMA  
EXPERIÊNCIA ÚNICA COM OS SEUS PRODUTOS,  
SERVIÇOS E EVENTOS.**

**GIVES THE USER AN  
UNIQUE EXPERIENCE WITH YOUR PRODUCTS, SERVICES AND EVENTS.**



Instalação rápida  
Baixo custo  
Conheça os seus clientes  
Facilidade de utilização

Quick installation  
Low cost  
Knowledge of your customers  
Ease of use

# O trueWiFi

DE IDEIA A NEGÓCIO

Instalação fácil e automática.

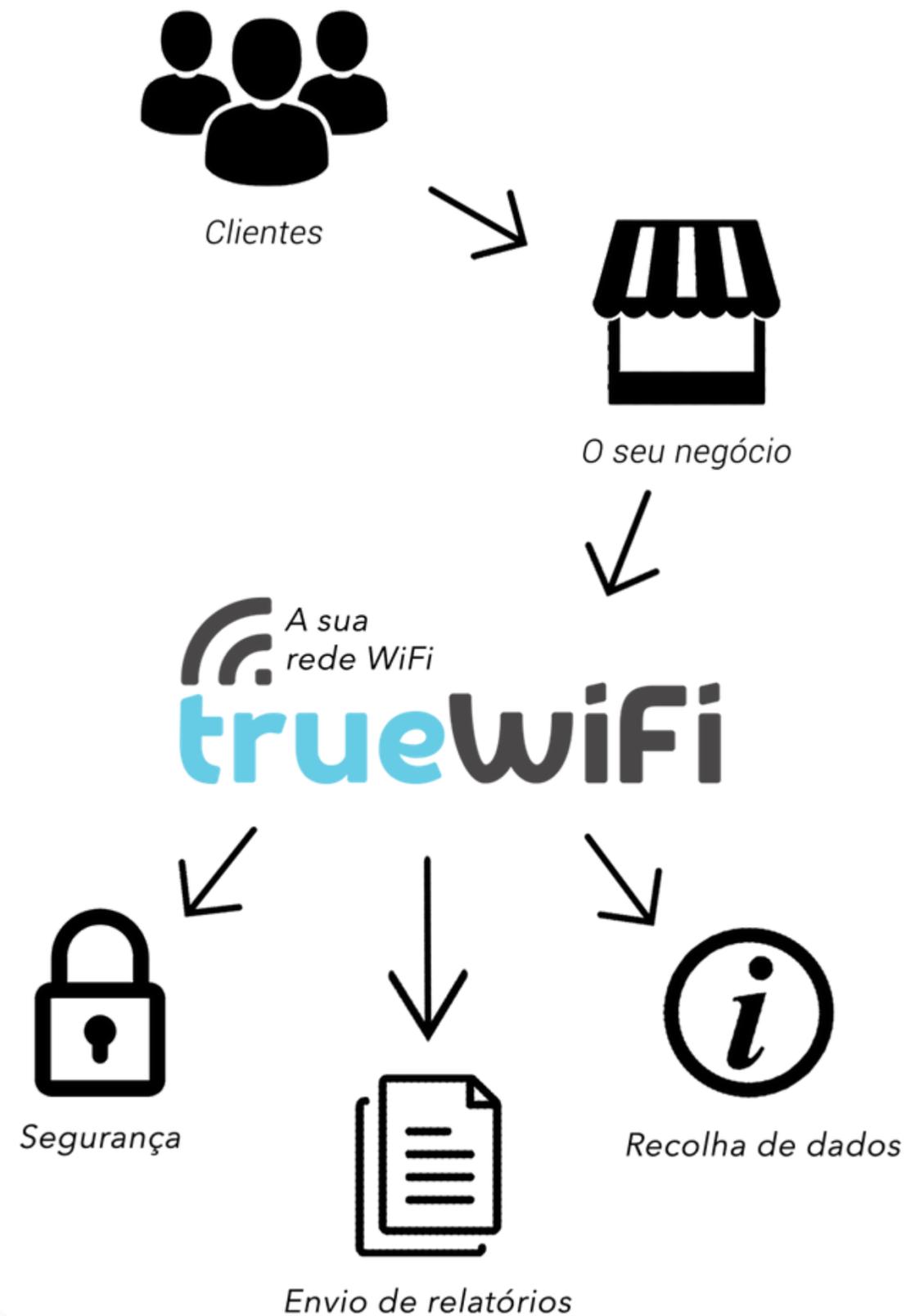
Easy and automatic installation.

Soluções flexíveis ajustadas ao seu negócio.

Flexible solutions tailored to your business.

**UMA TECNOLOGIA AO SEU SERVIÇO!**

**A TECHNOLOGY AT YOUR SERVICE!**



# EQUIPAMENTOS MIKROTIK



**Mikrotik WAP AC  
Indoor / Outdoor  
2.4 GHz / 5.0 GHz**

Equipamentos de última geração que proporcionam toda a garantia de acesso, rapidez e segurança.

Last generation equipments that provide guarantee of access, speed and safety.

**Mikrotik HAP AC LITE  
Indoor  
2.4 GHz / 5.0 GHz**





# criação e configuração de hotspots

The screenshot displays the TrueWiFi management dashboard. The browser address bar shows the URL: `app.truewifi.io/hotspots/info/k2nXDWvctXquKE7P5/configs`. The page title is "Hotspots" and the breadcrumb trail is "Hotspots / Hairstudio Matosinhos / Configurações".

Navigation tabs include "Dashboard", "Clientes", and "Hotspots". The main content area is divided into several sections:

- Hotspots:** Includes buttons for "Utilizadores", "Configurações" (active), "Subscrição", and "Editar".
- Informação:** Shows the "ID de Configuração HotSpot" as `k2nXDWvctXquKE7P5` and provides buttons to "Obter aplicação de configuração do router" for "Windows" and "Mac".
- Routers:** A table with columns: "Nome do Router", "Identidade", "Estado", "Ativo", and "Ações".

Nome do Router	Identidade	Estado	Ativo	Ações
	---	PENDENTE	<input checked="" type="checkbox"/>	<a href="#">✎</a> <a href="#">🗑️</a>
WAP LTE	86C6070793CC	ATIVO	<input checked="" type="checkbox"/>	<a href="#">✎</a> <a href="#">🗑️</a>
- Ações de Admin:** Includes buttons for "Sincronizar Tipo de Subscrição", "Criar Registo de Subscrição Trial", and "Apagar Hotspot". It also shows "Data de Expiração" as "2019-07-10 19:12:00" and "Limite de Routers" as "2".

# CRIAÇÃO E CONFIGURAÇÃO DE HOTSPOTS

trueWiFi

Dispositivo não detetado

ID do HotSpot

SSID

PIN

Opções Avançadas

PROCURAR DISPOSITIVO

NodeJS  
Desktop  
APP

# MIKRO NODE

```
return new Promise(function(resolve, reject){

  var MikroNode = require('mikronode');
  var device = new MikroNode(ip);

  device.connect().then(([login])=>login(USERNAME, PASSWORD)).then(function(conn) {
    conn.closeOnDone(true);
    var chan = conn.openChannel();
    chan.sync(true);
    chan.write('/system/reset-configuration', { 'run-after-reset': configFileName });
    resolve();
    chan.close();
  }, function(err){
    console.log(err);
    reject(err);
  });
});
```

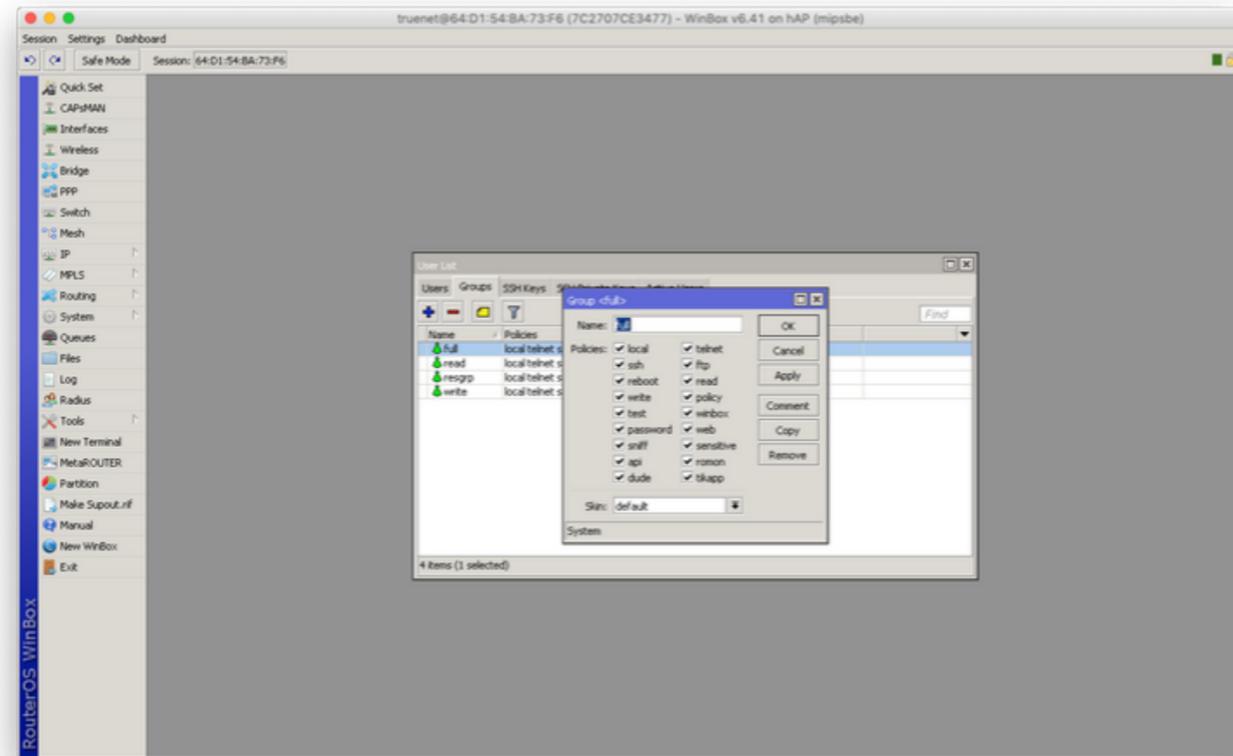
```
var chan2 = conn.openChannel("getSN", true);
var chan = conn.openChannel("getinterfaces", true);

chan2.sync(true);
chan.sync(true);
var obj_final = {};
obj_final.interfaces = [];

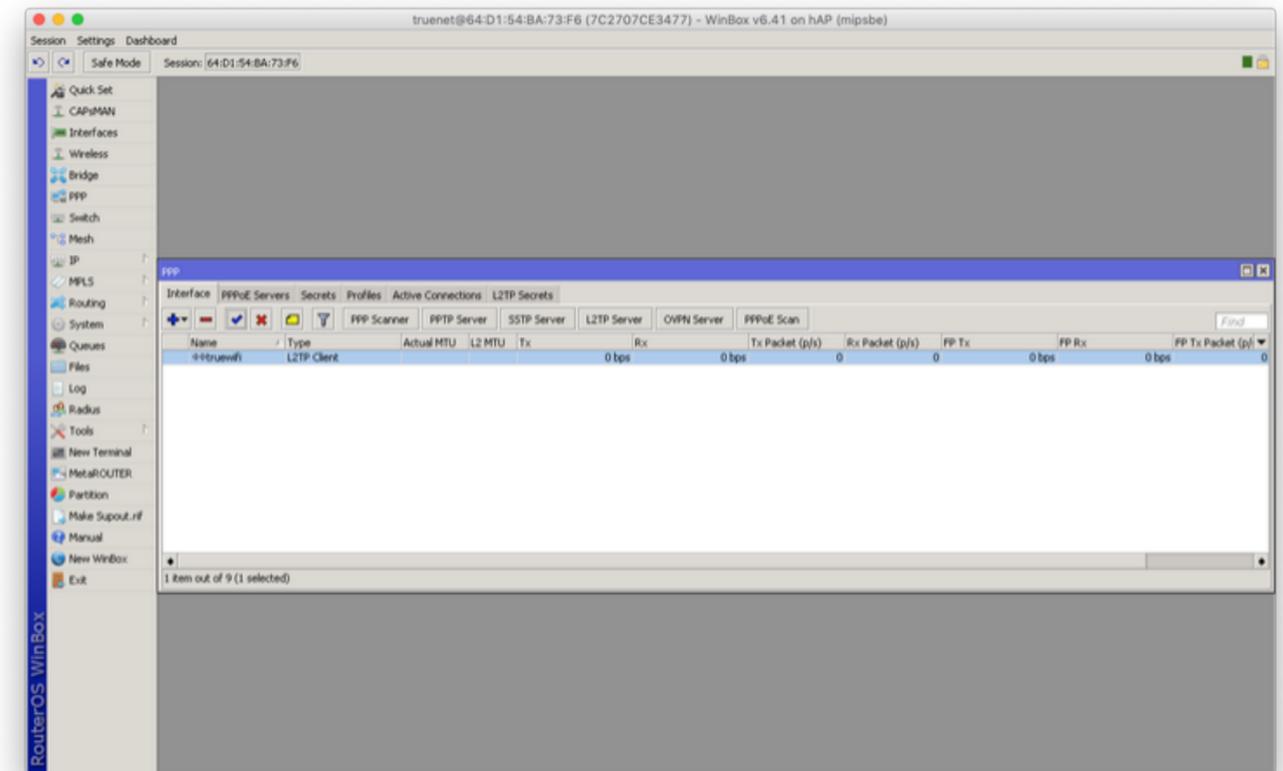
// Get router serial number
chan2.write('/system/routerboard/print');
chan2.done.subscribe(function(data2){
  var results = MikroNode.resultsToObj(data2.data[0]);
  var SN = results["serial-number"];
  chan2.close();
  if(!SN || SN == "undefined"){
    reject();
  } else {
    obj_final.SN = SN;
  }
});

var wlanCount = 0;
// Get router interfaces
chan.write('/interface/print');
chan.done.subscribe(function(data3){
  data3.data.forEach(function(item2) {
    var data_2 = MikroNode.resultsToObj(item2);
    if (data_2.type == 'ether') {
      obj_final.interfaces.push(data_2['default-name']);
    } else if(data_2.type == 'wlan'){
      wlanCount++;
    }
  });
  if(conf_opts.type == "default" && wlanCount < 2){
    reject("insuficient-interfaces");
  }
  chan.close();
  resolve(obj_final);
});
});
```

# API MIKROTIK



# VPN



# BRIDGE

truenet@64-D1-54-BA-73-F6 (7C2707CE3477) - WinBox v6.41 on hAP (mipsbe)

Session Settings Dashboard

Safe Mode Session: 64:D1:54:BA:73:F6

Bridge

Name	Type	L2 MTU	Tx	Rx	Tx Packet (p/s)	Rx Packet (p/s)	FP Tx	FP Rx	FP Tx Packet (p/s)	FP Rx Packet (p/s)
R #bridge1	Bridge	1598	0 bps	400 bps	0	1	0 bps	0 bps	0	0
R #bridge2	Bridge	1598	2.1 kbps	31.7 kbps	2	16	0 bps	26.8 kbps	0	0

2 items out of 9

truenet@64-D1-54-BA-73-F6 (7C2707CE3477) - WinBox v6.41 on hAP (mipsbe)

Session Settings Dashboard

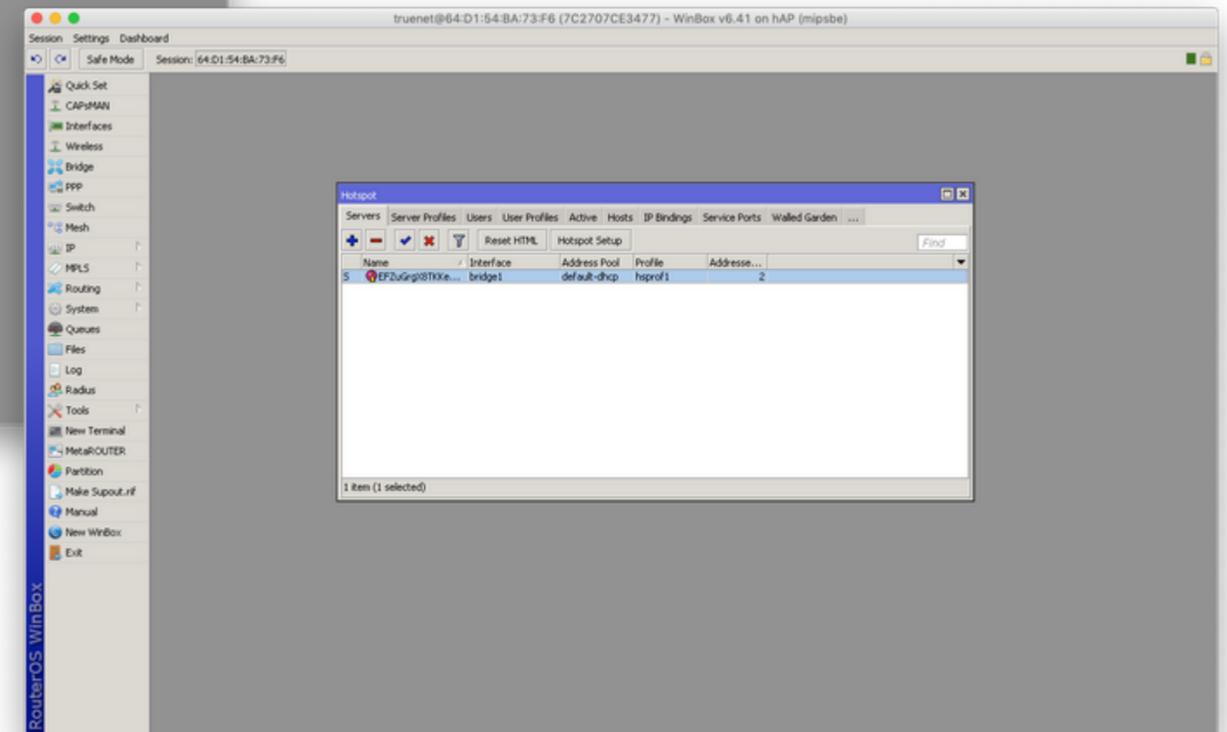
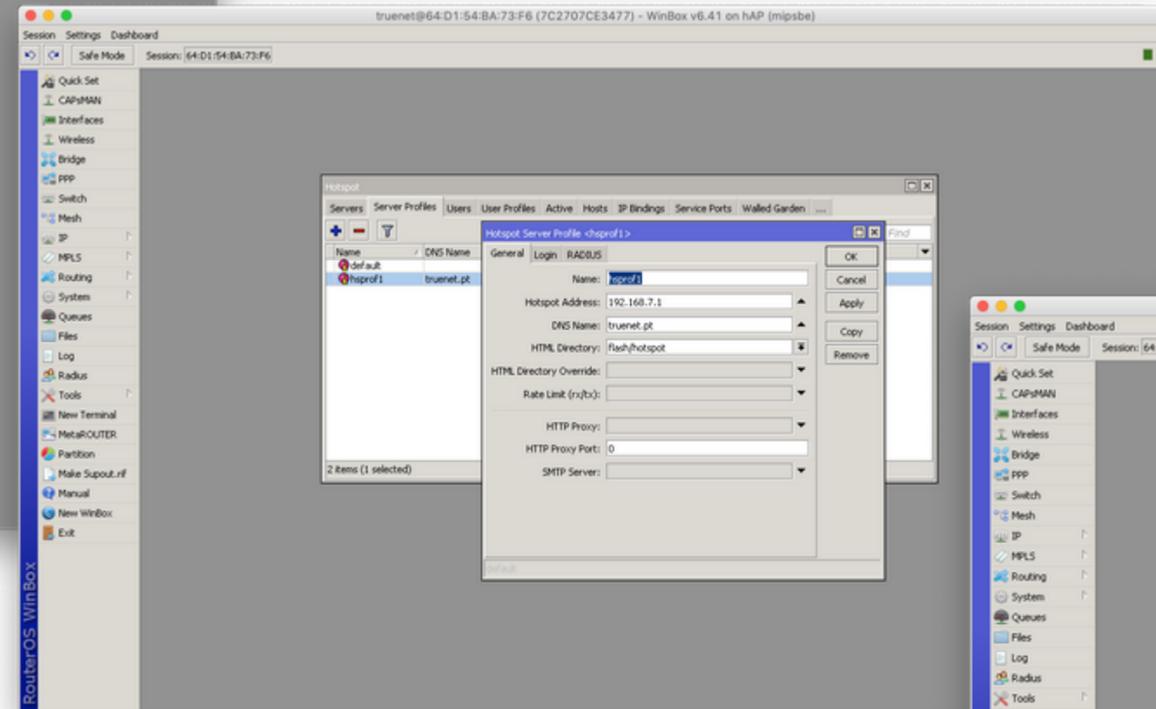
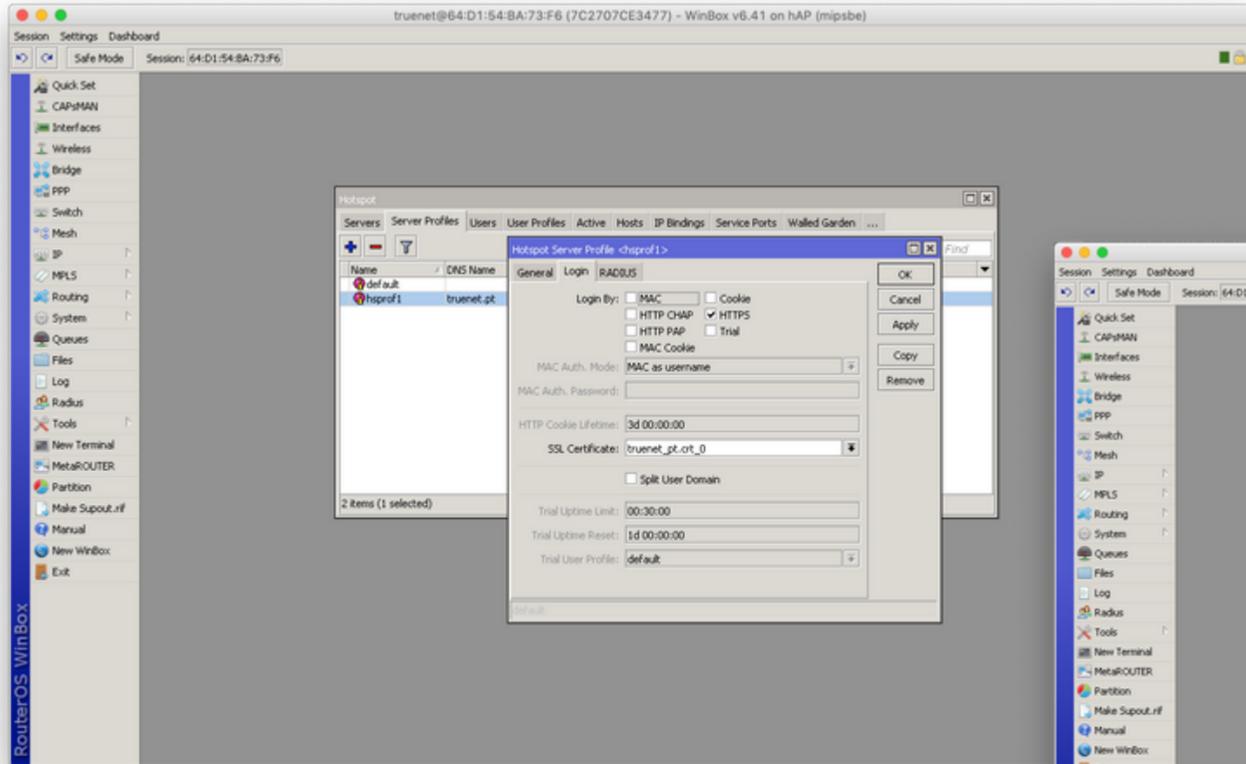
Safe Mode Session: 64:D1:54:BA:73:F6

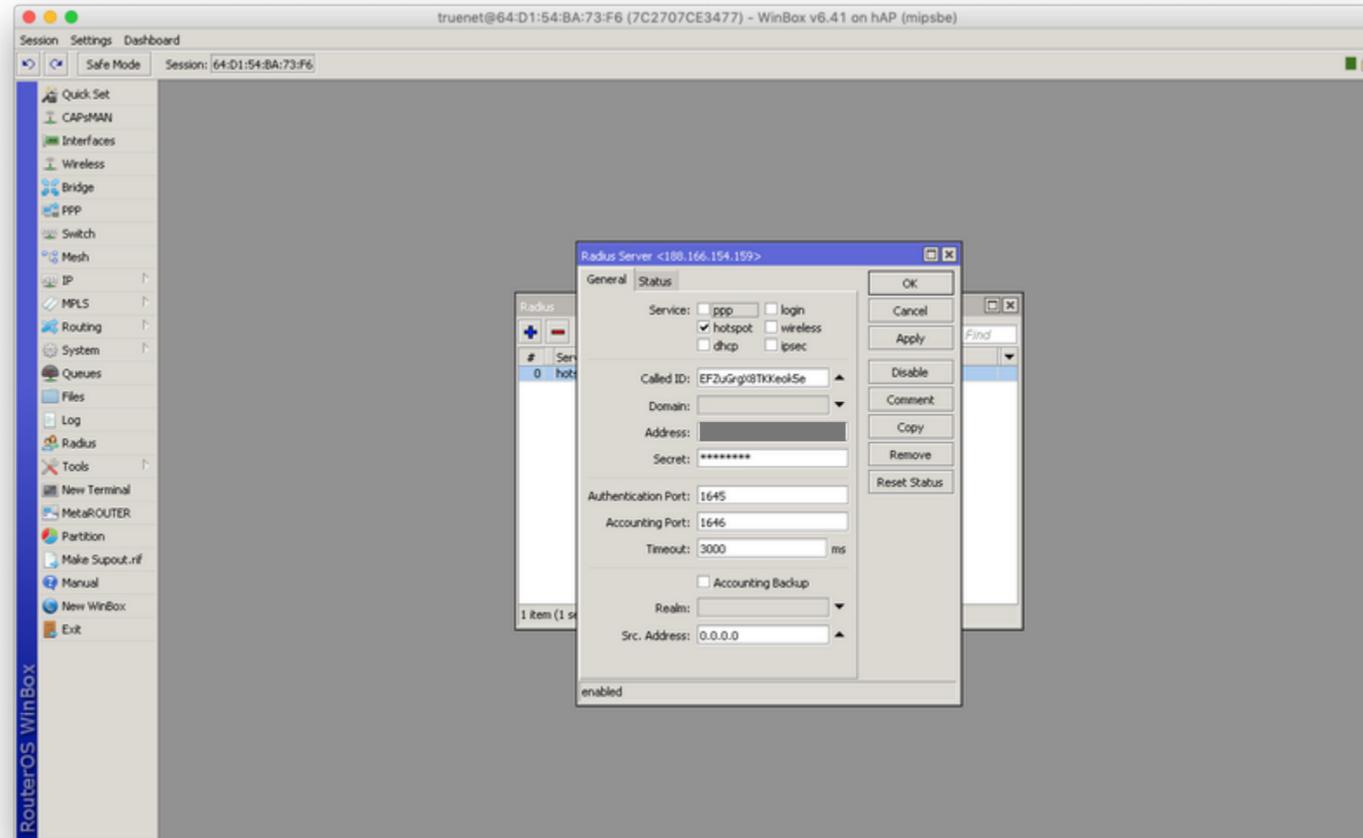
Bridge

#	Interface	Bridge	Horizon	Priority (...	Path Cost	Role	Root Pat...
0 I	#ether3	bridge2		80	10	disabled port	
1 I	#ether4	bridge2		80	10	disabled port	
2 I	#lan1	bridge2		80	10	designated port	
3 H	#ether5	bridge1		80	10	designated port	
4 I	#ether2	bridge2		80	10	designated port	

5 items

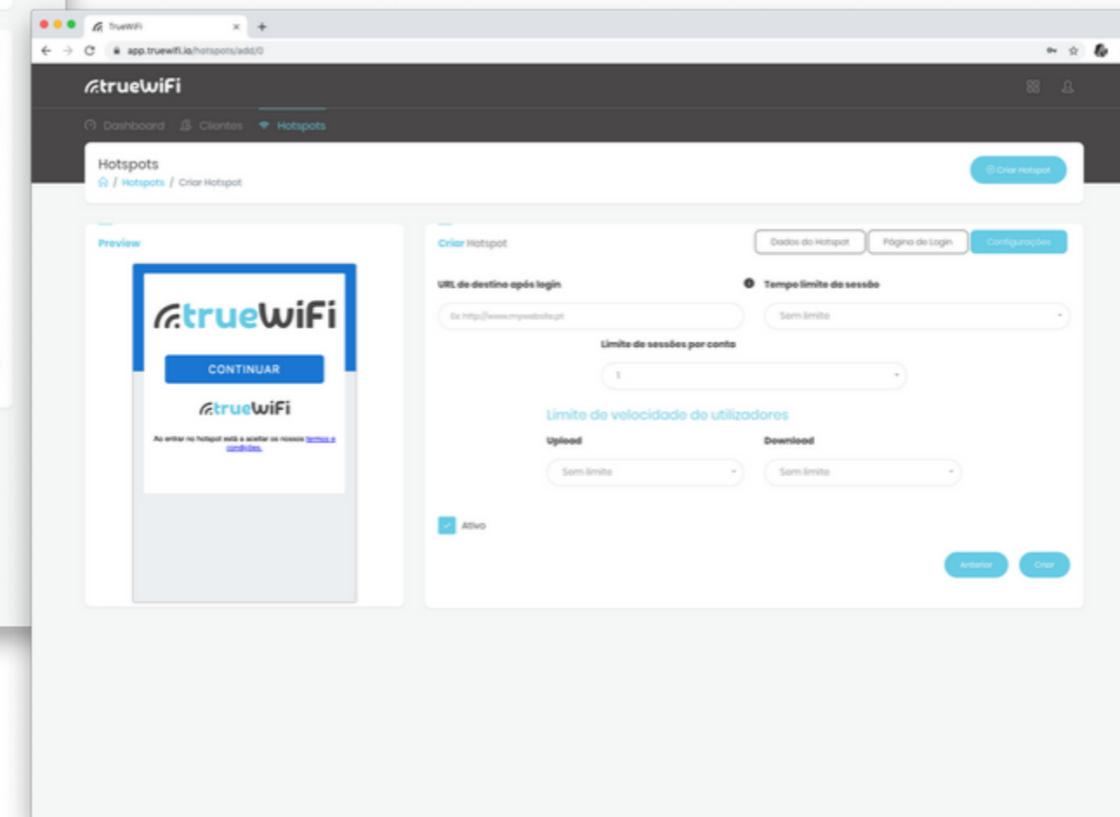
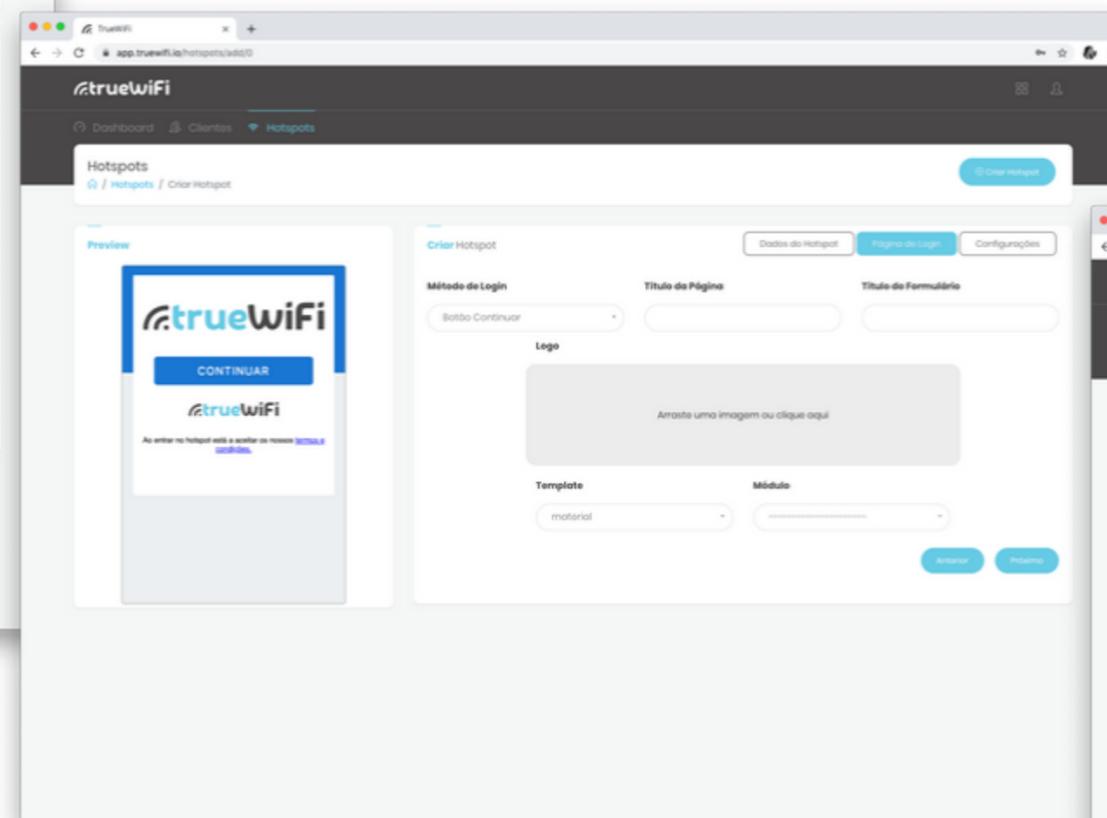
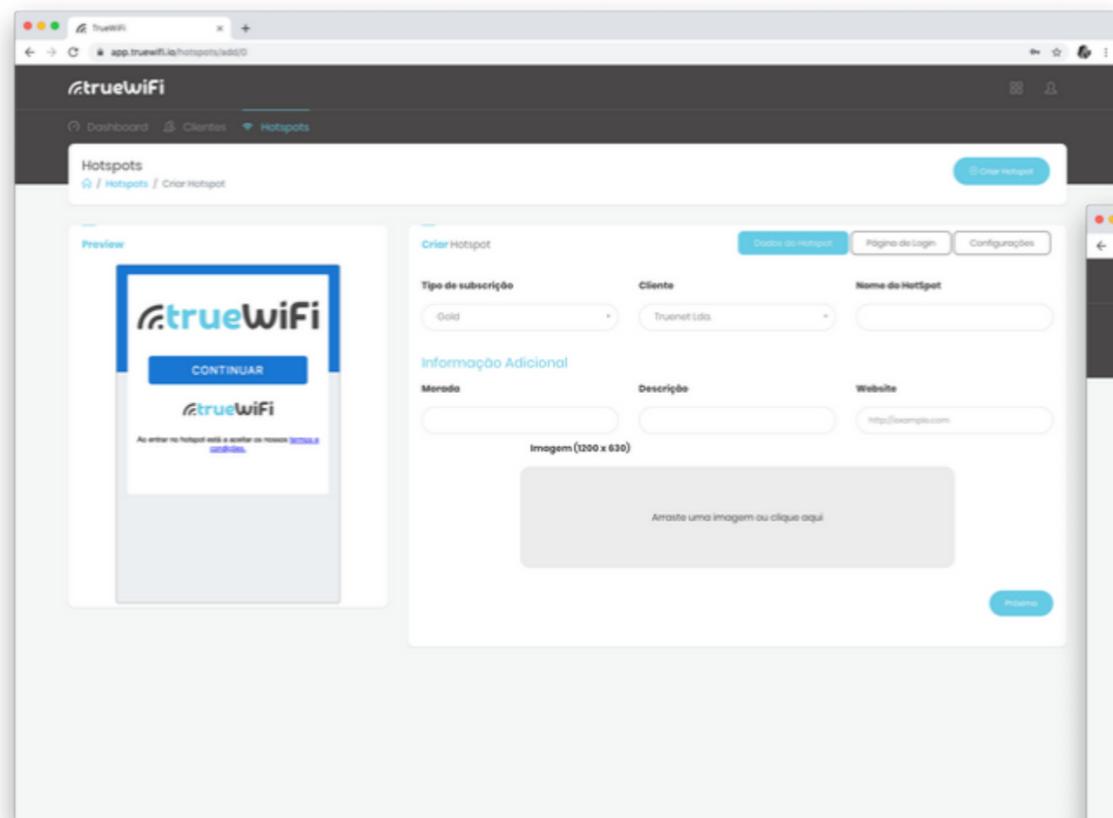
# HOTSPOT





# RADIUS

# CRIAÇÃO E CONFIGURAÇÃO DE HOTSPOTS



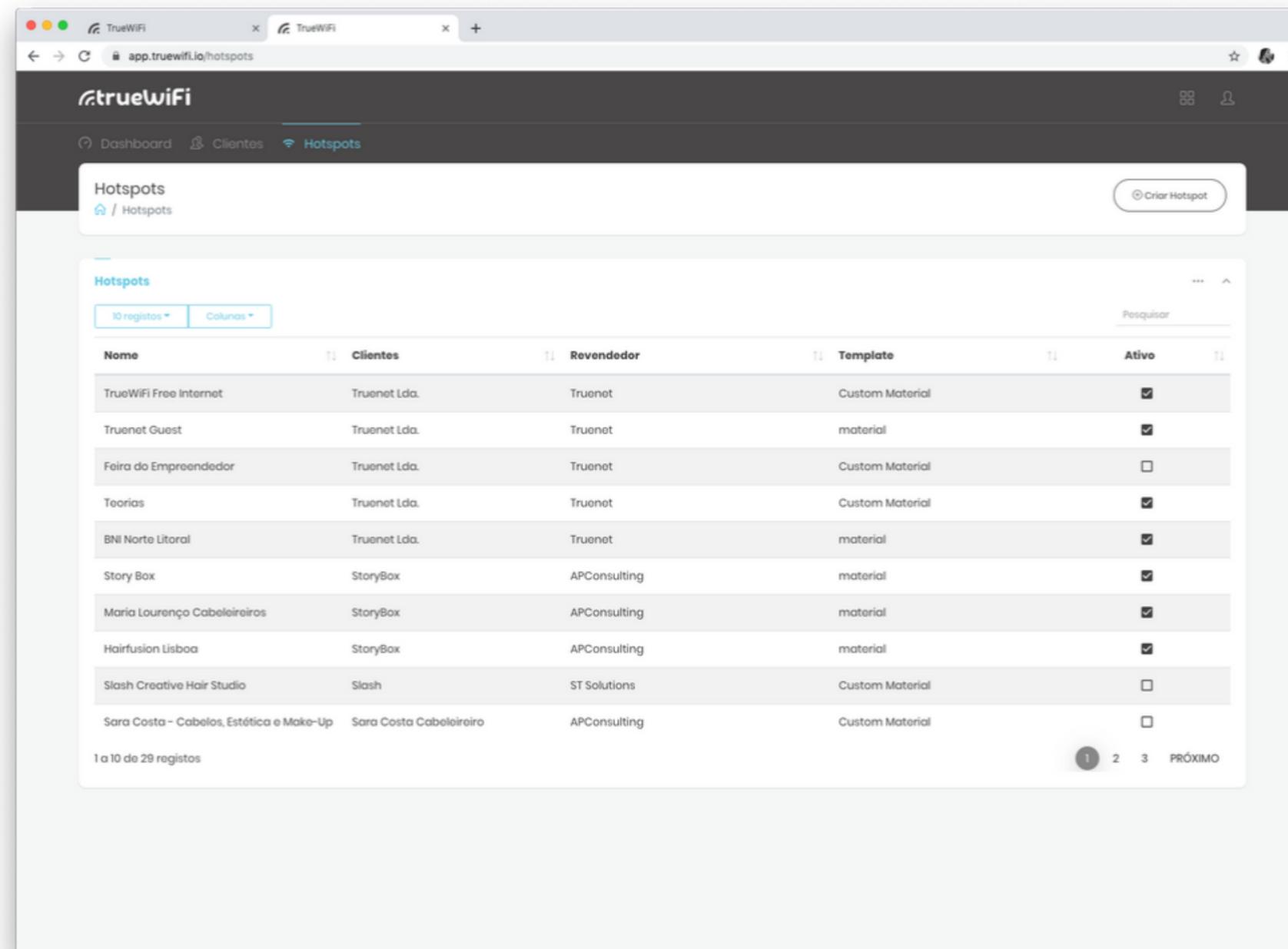
# criação de contas cliente

The screenshot displays the TrueWiFi web application interface for adding a new client. The browser address bar shows the URL `app.truewifi.io/clientes/add`. The page header includes the TrueWiFi logo and navigation links for Dashboard, Clientes, and Hotspots. The main content area is titled 'Clientes' and features a 'Criar' button. Below this, the 'Adicione um Cliente' form is presented with the following fields:

<b>Revendedor</b> Truonet	<b>Nome</b> O seu negócio
<b>Email</b> o_seu_negocio@email.pt	<b>Nº Telemóvel</b> +35191000000
<b>Nº Contribuinte</b> 000000000	<b>Morada</b> 

At the bottom of the form, there is a checkbox labeled 'Este cliente recebe emails' which is checked, and a 'Criar' button.

# GESTÃO DE HOTSPOTS



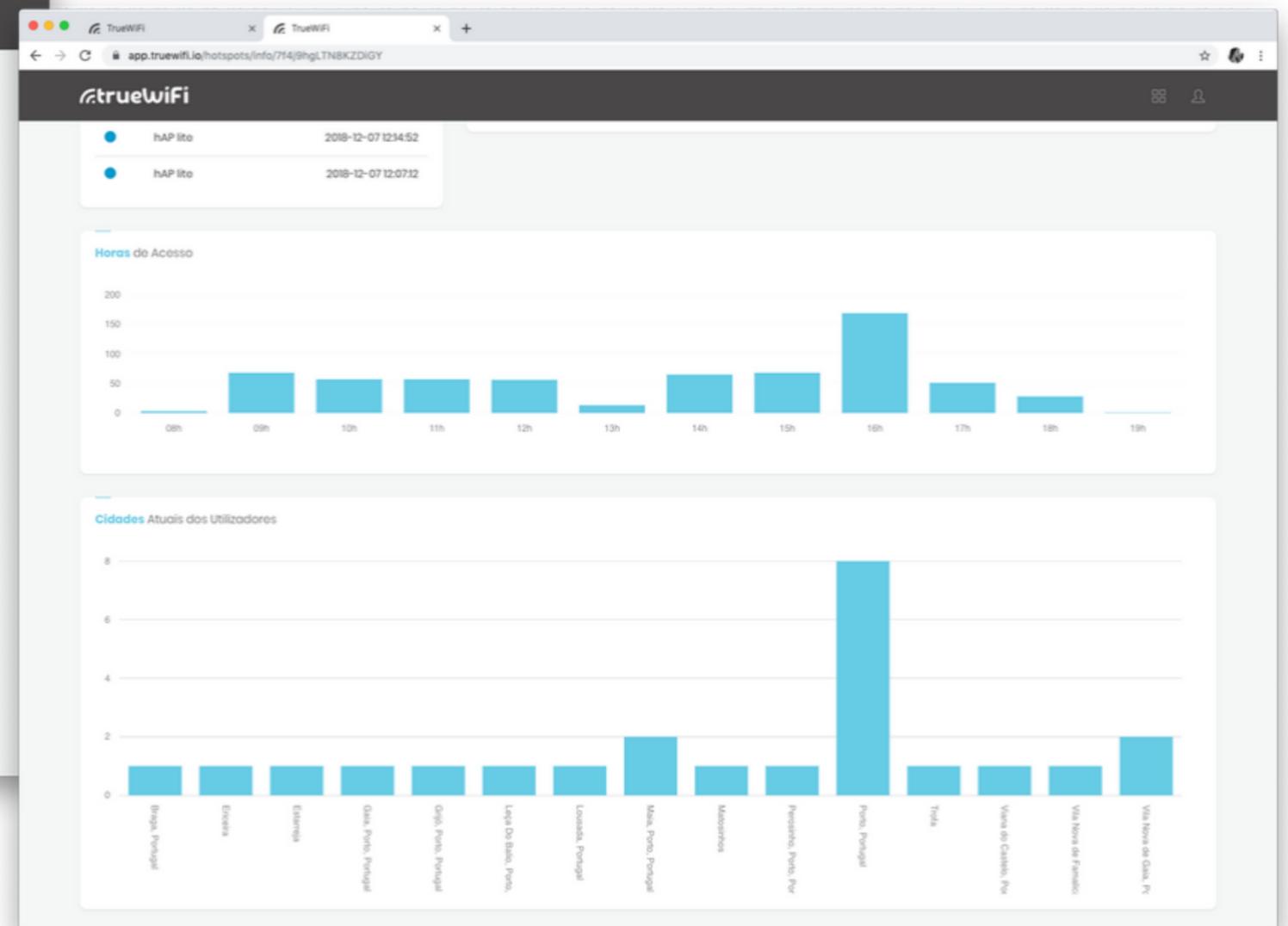
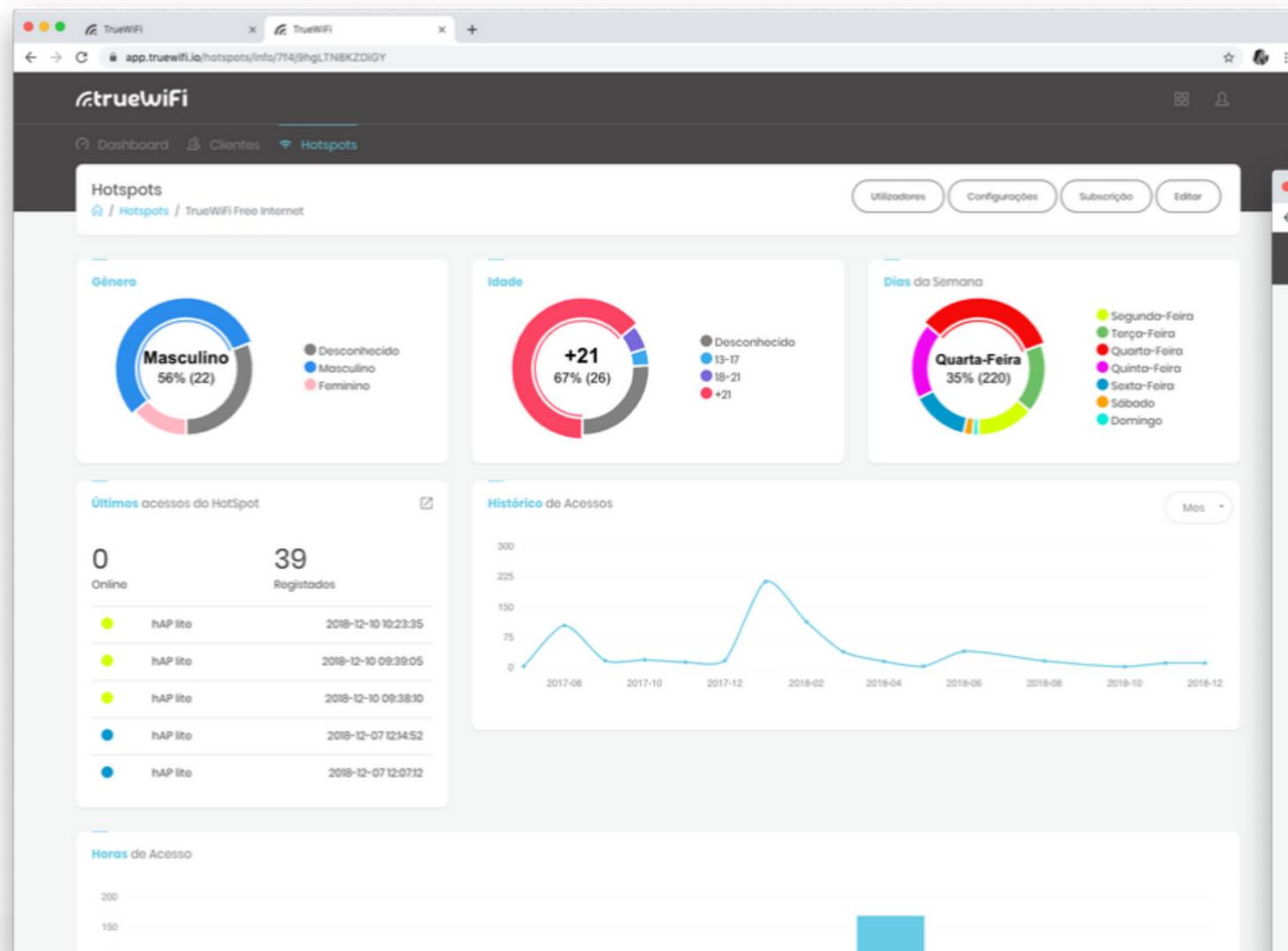
The screenshot displays the TrueWiFi management interface for hotspots. The browser address bar shows 'app.truewifi.io/hotspots'. The navigation menu includes 'Dashboard', 'Clientes', and 'Hotspots'. A 'Criar Hotspot' button is visible in the top right. The main content area features a table with 10 records, a search bar, and pagination controls.

Nome	Clientes	Revendedor	Template	Ativo
TrueWiFi Free Internet	Truenet Lda.	Truenet	Custom Material	<input checked="" type="checkbox"/>
Truenet Guest	Truenet Lda.	Truenet	material	<input checked="" type="checkbox"/>
Foira do Empreendedor	Truenet Lda.	Truenet	Custom Material	<input type="checkbox"/>
Toarias	Truenet Lda.	Truenet	Custom Material	<input checked="" type="checkbox"/>
BNI Norte Litoral	Truenet Lda.	Truenet	material	<input checked="" type="checkbox"/>
Story Box	StoryBox	APConsulting	material	<input checked="" type="checkbox"/>
Maria Lourenço Cabeleiros	StoryBox	APConsulting	material	<input checked="" type="checkbox"/>
Hairfusion Lisboa	StoryBox	APConsulting	material	<input checked="" type="checkbox"/>
Slash Creative Hair Studio	Slash	ST Solutions	Custom Material	<input type="checkbox"/>
Sara Costa - Cabelos, Estética e Make-Up	Sara Costa Cabeleiro	APConsulting	Custom Material	<input type="checkbox"/>

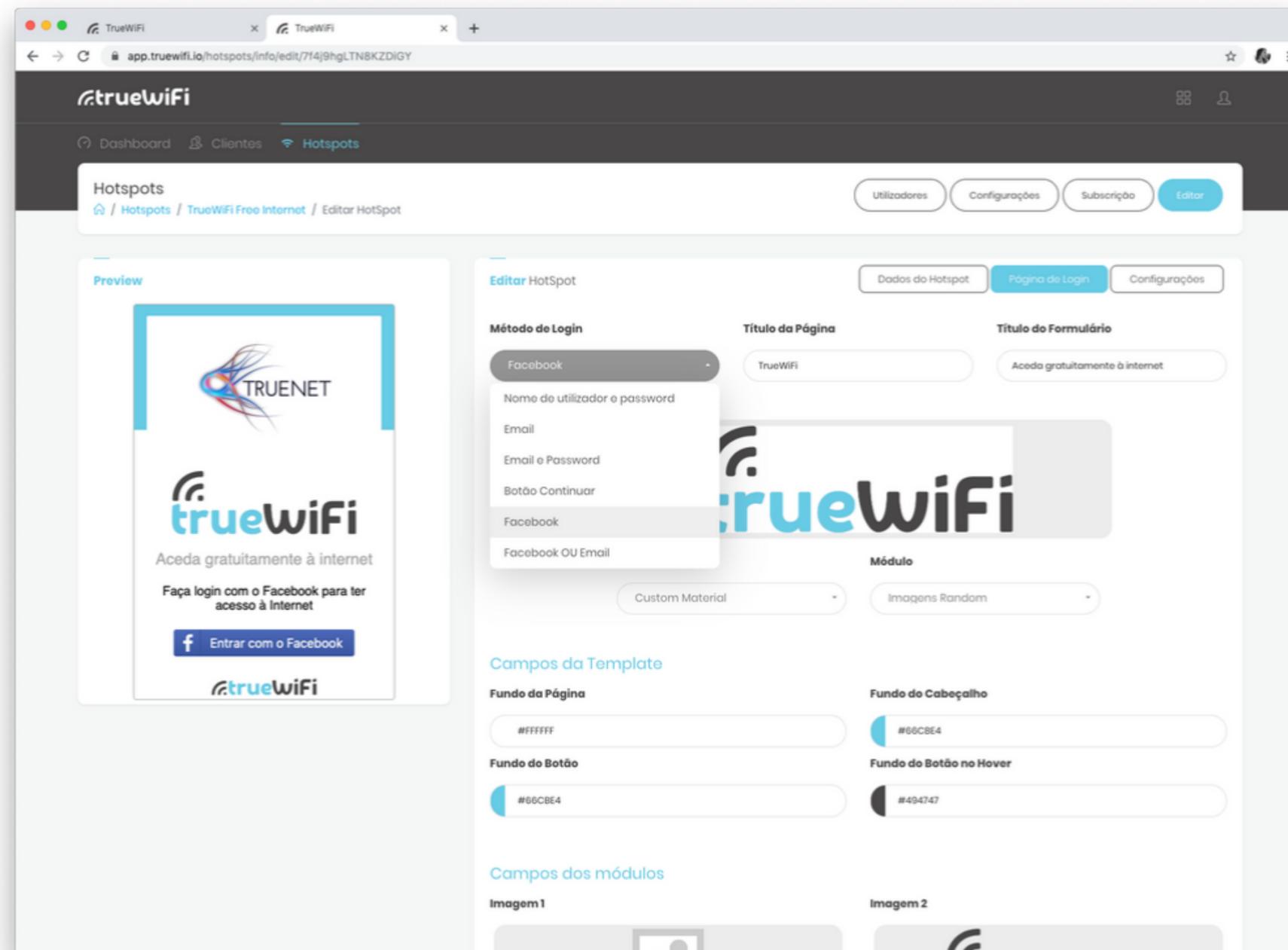
10 registos | Colunas | Pesquisar

1 a 10 de 29 registos | 1 2 3 PRÓXIMO

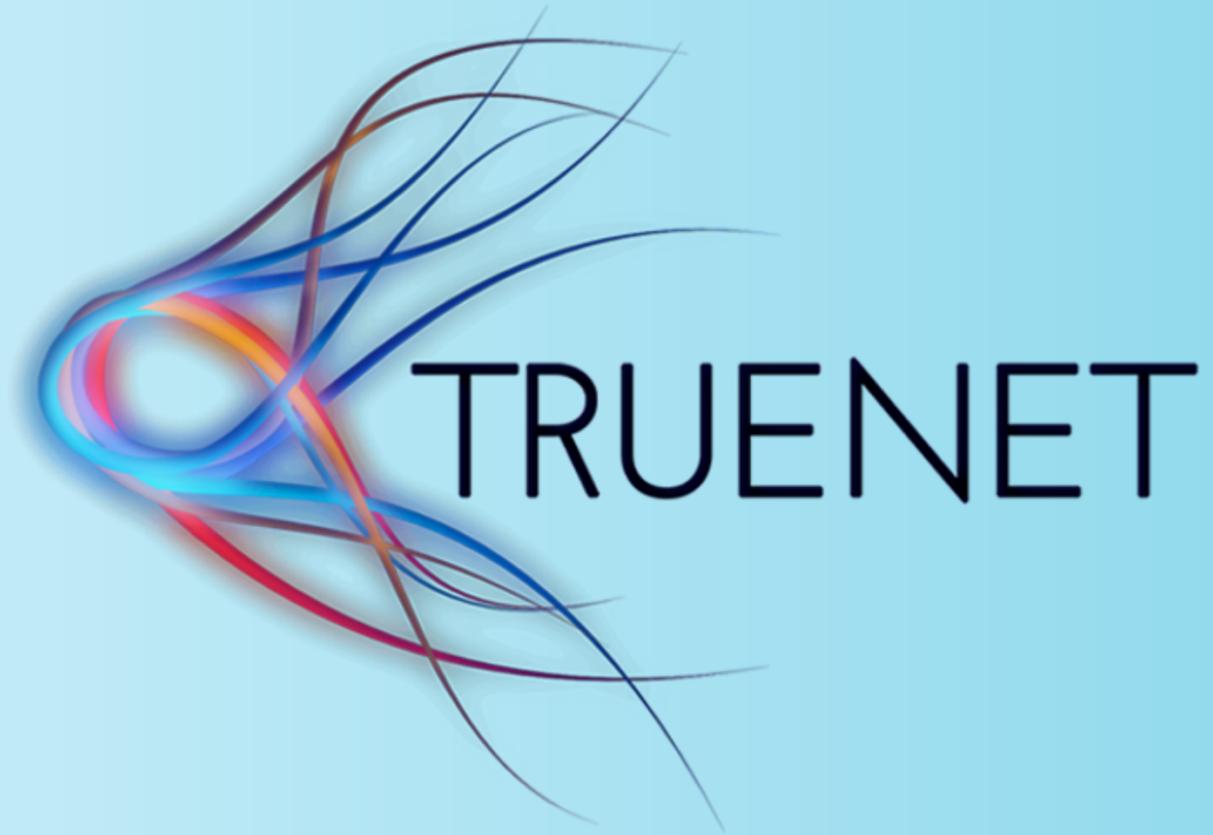
# VISUALIZAÇÃO DE ESTATÍSTICAS EM TEMPO REAL



# VÁRIOS MÉTODOS DE LOGIN



mum



TRUENET

WE MAKE IT  
HAPPEN